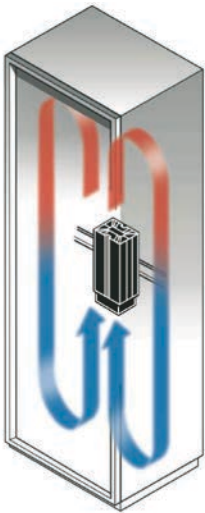


TriLine® Switchgear cabinets

Cabinet heating

5



Application and function

Temperature variations inside switchgear cabinets and housings can lead to the condensation of water and consequently to malfunctions and corrosion. Through the use of switchgear cabinet heating, temperature variations can be reduced and the condensation of water can be prevented. The heaters are equipped with a PTC heating element and are self-regulating, operate without temperature control and have a thermal output that varies only little over a wide voltage range. Optimum heat dissipation is achieved through profiled aluminium housings with small dimensions.

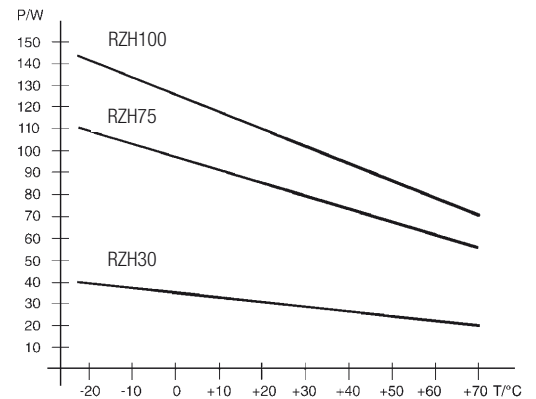
Electrical connection

Heater RZH30 is supplied with a 300 mm connecting cable and heaters RZH75 and RZH100 have a connection terminal for direct connection to the power supply. All heater types equipped with PTC heating elements operate with both AC and DC voltages and are available for a voltage range of 110 to 240 V. Due to the PTC characteristics of the heaters, a slow fuse is required that is designed for at least double the rated current of the heater. Thermostats, which are available as accessories, can be used to control or monitor the heaters.

Mounting and fastening

For best efficacy, the heater should be mounted vertically in the lower section of the switchgear cabinet, with the connection terminal facing downward. With larger installations, a better heat distribution is achieved by fitting several small heaters. All heaters have snap fasteners that allow for fast attachment to 33 mm DIN rails. In order not to impair convection, a minimum distance of 50 mm from adjacent devices is to be maintained at the top and at the bottom. The minimum distance to be maintained from the side is 20 mm, or 40 mm with thermoplastic materials.

Switchgear cabinet heating performance against ambient temperature



RZH30

Article	Pieces	Type	Ord. no.	Price
PTC heating element	1	RZH30	2CPX046480R9999	
	1	RZH75	2CPX046481R9999	
	1	RZH100	2CPX046482R9999	

Type	Design	Thermal output at 20°C	Voltage	Dimensions (L x W x H)
RZH30	PTC heating element with connection terminals	30 W	110 V - 240 V AC/DC	120 x 30 x 60 mm
RZH75		75 W		155 x 80 x 80 mm
RZH100		100 W		155 x 80 x 80 mm

> Dimensions in mm